

differentiate [to] into derivatives of endoderm, mesoderm, and
91 ectoderm tissues throughout the culture, and (iv) will not
differentiate when cultured on a fibroblast feeder layer.

3. (Amended) A purified preparation of primate embryonic
stem cells wherein the cells are negative for the SSEA-1
marker, positive for the SSEA-3 marker, positive for the SSEA-
4 marker, express alkaline phosphatase activity, are
92 pluripotent, and have [normal] karyotypes which includes the
presence of all of the chromosomes characteristic of the
primate species and in which none of the chromosomes are
noticeably altered.

9. (Amended) A method of isolating a primate embryonic
stem cell line, comprising the steps of:

- (a) isolating a primate blastocyst;
 - (b) isolating cells from the inner cell mass of the
[blastocyte] blastocyst of (a);
 - 93 (c) plating the inner cell mass cells on embryonic
fibroblasts, wherein inner cell mass-derived cells masses are
formed;
 - (d) dissociating the mass into dissociated cells;
 - (e) replating the dissociated cells on embryonic feeder
cells;
 - (f) selecting colonies with compact morphologies and
cells with high nucleus to cytoplasm ratios and prominent
nucleoli; and
 - (g) culturing the cells of the selected colonies.
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